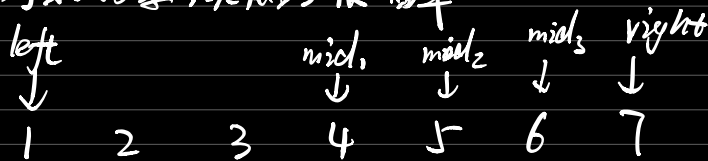


binary-search

二分搜索, 有序序列的搜索, 其思路很简单



mid: 为临时指针, 指向各个元素的索引, 是一种搜索单个元素比较好用的算法, 但要求的前提是有序序列. 其实现如下

```
int left = ...;
```

```
int right = ...;
```

```
while (left <= right) {
```

```
    int mid = left + (right - left) / 2;
```

```
    if (func(mid) ...) {
```

```
        // else ...
```

```
    } else { ... }
```

```
}
```

```
}
```

如上其判断部分为

```
if (arr[mid] == tar) {
```

```
    return tar;
```

```
} else if (arr[mid] > tar) {
```

```
    right = mid;
```

```
} else if (arr[mid] < tar) {
```

```
    left = mid;
```

```
}
```

改变index  
或返回结  
果的条件